Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_

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**End Semester Examination – Nov/Dec – 2018**

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| **Code :** | **14ME2035** | **Duration :** | **3hrs** |
| **Sub. Name :** | **INDUSTRIAL SAFETY ENGINEERING** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Define the term Trauma. | CO1 | 2 |
| b. | List the factors to be considered during identifying the causes of accident. | CO1 | 2 |
| c. | Explain the various responsibilities of Owners, Executives, Officers in safety management. | CO1 | 16 |
| (OR) | | | | |
| 2. | a. | Define two hand control method. | CO1 | 2 |
| b. | Write two difference between accidents vs injuries. | CO1 | 2 |
| c. | In detail explain the various safety committees to be formed in an organization. | CO1 | 16 |
|  |  |  |  |  |
| 3. | a. | Define guarding. | CO2 | 2 |
| b. | State the limitations of fixed barrier guard. | CO2 | 2 |
| c. | Enumerate the various principles and methods used for safeguarding machines in an industry. | CO2 | 16 |
| (OR) | | | | |
| 4. |  | Explain in detail about safety requirements recommended in an industry for the use of power press by a safety department. | CO2 | 20 |
|  |  |  |  |  |
| 5. | a. | Define Occupational Exposure Limits. | CO3 | 2 |
| b. | List out some of the common mechanical hazards faced by an worker during material handling. | CO3 | 2 |
| c. | Evaluate the various hazards and Safety principles recommended in an chemical industry for handling chemicals. | CO3 | 16 |
| (OR) | | | | |
| 6. |  | Explain the various safety principles to be followed during arc welding process and name some protective equipments used. | CO3 | 20 |
|  |  |  |  |  |
| 7. | a. | Name the three health hazards undergone by labor in shot blasting. | CO4 | 2 |
| b. | Mention any two Problem solving skills of the furnace operator. | CO4 | 2 |
| c. | Enumerate the safety responsibility to be followed in sand blasting process. | CO4 | 16 |
| (OR) | | | | |
| 8. | a. | Name the cancer causing chemicals used in paints. | CO4 | 4 |
| b. | Explain the various safety principles to be followed in heat treatment process. | CO4 | 16 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Enumerate the various safety principles to be followed during electroplating process. | CO4 | 14 |
| b. | Explain the different safety precautions followed during dynamic balancing machine. | CO4 | 6 |